EH6000H series

EH6108H⁺/EH6216H⁺

Quick User Guide

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TRADEMARKS

NOTICE

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.
THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCE ONLY.

WARNING

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION.

INFORMATION

For more information, please refer to the user manual in the software CD.

I. Package Contents

■ **EH6108H⁺**

(1) (2) (3) (4)

(5) (6) (7) (8)

(9)

ⓘ
- If there is any damage, shortage or inappropriate item in the package contents, please contact with local dealer
- EH6108H+ has 2 models; one is come with DVD-ROM and another one is come with HDD tray.

(1) EH6108H⁺ DVR unit
(2) Optical USB mouse
(3) Quick Installation Guide
(4) Software CD (Manual is included)
(5) Screws for internal HDD installation
(6) Power adaptor

(7) Power Cord (*The power cord may vary according to the local electricity system.)
(8) SATA cables
(9) Audio cable
(Red cable: 8CH audio in/White cable: 1CH audio out/Black cable: 1CH MIC in)

■ **EH6216H⁺**

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| | - | EH6216H⁺ has 2 models; one is come with DVD-ROM and another one is come with HDD tray. |

(1) EH6216H⁺ DVR unit
(2) Optical USB mouse
(3) Quick Installation Guide
(4) Software CD (Manual is included)
(5) Screws for internal HDD installation
(6) Power adaptor

(7) Power Cord (*The power cord may vary according to the local electricity system.)
(8) SATA cables
(9) Audio cable
  (Red cable: 16CH audio in/White cable: 1CH audio out/Black cable: 1CH MIC in)

■ **Optional Accessories**

Remote controller

DVI cable for Loop out

SATA cable hard disk installation

IR extended cable

Rack ears

II. Hardware Installation

A. Install the hard disk

ℹ️ For hard disk spec, please referring to http://surveillance.aver.com/download-center →
Embedded Hybrid DVR/NVR → EH6000H series → Hardware Recommendations

Follow the illustrated instructions below to install the hard disk:

1. Loosen all screws(2 side and back) and push the cover backward and lift

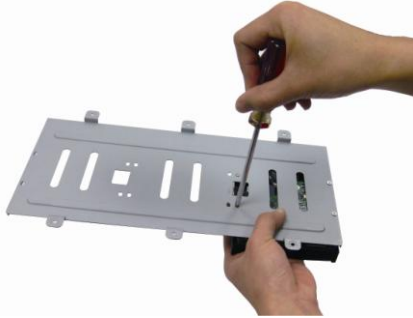2. Loosen the screws of holder in order to take out the hard disk rack.

3. Loosen all the screws of hard disk plate.

4. The hard disk plate can be installed 3 hard disks. User can choose the position and place the hard disk on it.
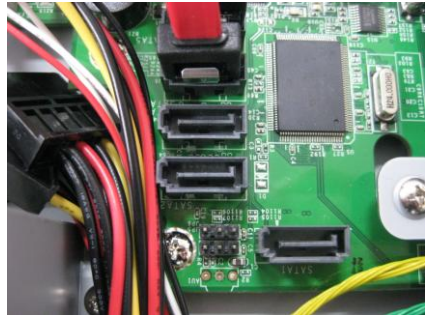
5. Turn the plate and hard disk over carefully and screw the hard disk on the plate. If hard disk cannot match to the screw hole, then, you may adjust the hard disk position to match the screw hole.

6. Plug the SATA cable into SATA connector on the PC board.

[Note]
1. SATA 5 is for DVD player.
2. SATA 4 is for e-SATA interface
3. 1st HDD is suggested to install on SATA 6.
4. The number of SATA connector is displayed nearby SATA connector.

7. Plug the power cable and SATA cable into hard disk. And then, screw the plate inside the DVR unit.

8. Plug the SATA cable into the left side hard disk.

> **ⓘ** User can leave un-plug the SATA cable on the left side HDD for screwing plate inside the DVR more easily later.

9.   Screw the holder on the DVR unit.   10.   Push the cover forward and secure the cover

11.   You may now connect all the cables and power on the DVR unit.

B. Device Connection

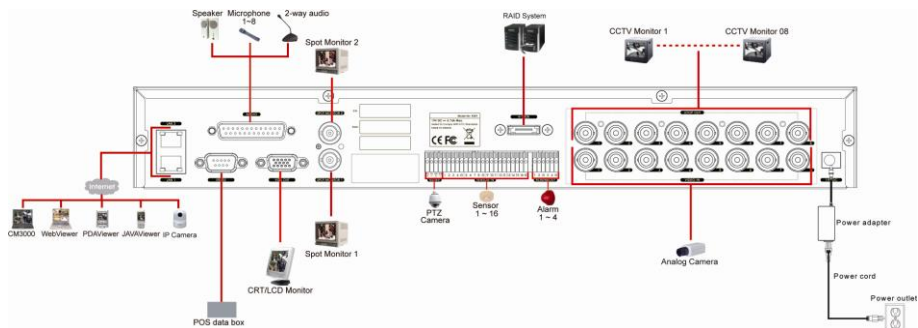⚠   Pen drive and external hard disk must be FAT32 format.

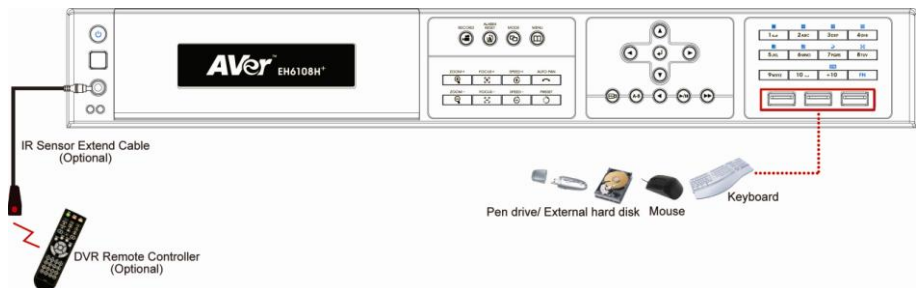ⓘ   All connected devices have their own power supply are necessary.

■   **EH6108H⁺**

The back panel of the DVR unit, user can connect up to 8 cameras in combination of analog and IP camera. The DVR unit also can connect 16 sensor devices, 4 alarm devices, and output video to a TV or CRT/LCD monitor.

Follow the illustration below to make the connection:

For backup recorded video, plugging the pen drive or external hard disk through USB port that are located at front panel of DVR unit, and then, use the bundled software enables user to transfer, playback and segment the video. Follow the illustration below to make the connection:

■ **EH6216H⁺**

The back panel of the DVR unit, user can connect up to 16 cameras in combination of analog and IP camera. The DVR unit also can connect 16 sensor devices, 4 alarm devices, and output video to a CRT/LCD monitor. Follow the illustration below to make the connection:
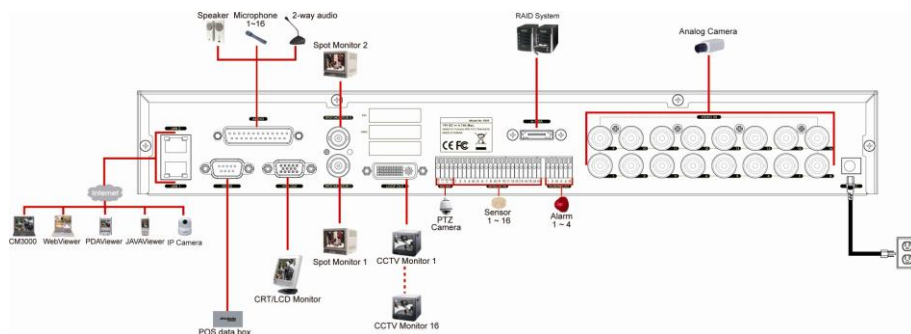

For backup recorded video, plugging the pen drive or external hard disk through USB port that are located at front panel of DVR unit, and then, use the bundled software enables user to transfer, playback and segment the video. Follow the illustration below to make the connection:
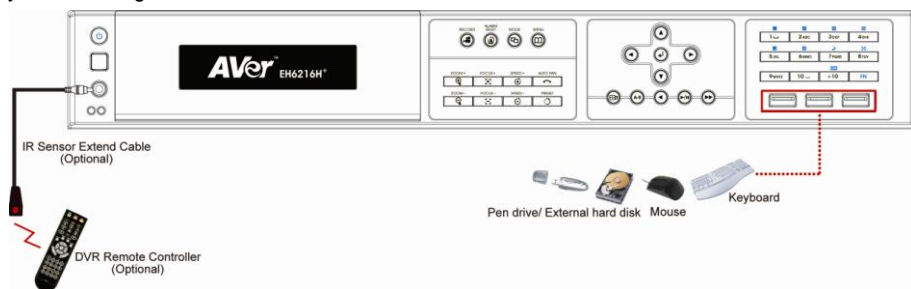
III. Using DVR System

A. Way to Operate DVR

There are three ways can be managed the DVR unit:

1. **Using mouse and keyboard**
    Connecting the mouse and keyboard through USB interface, user can easily to manage the DVR unit. For the first time using DVR unit, mouse and keyboard is the best way to set up all DVR relevant configurations.

2. **Using Remote Controller(Optional accessory)**
    After DVR unit has been setup, user can use remote control to preview, playback, backup, reset alarm, output video and so on functions.

3. **Using Front Panel buttons(EH6108H⁺ and EH6216H⁺ only)**
    It's an optional way to operate DVR unit. Front panel button function acts as same as remote controller.

> ⓘ   For the first time using DVR unit, using mouse and keyboard to setup all configurations.

B. First Time Using DVR Unit

1. Connect the mouse and keyboard to DVR unit(through USB interface)
2. Power on the DVR unit.
3. For security purpose, the DVR system would require you to enter User ID and Password before it can be accessed. When the Authorization dialog box appears, enter the ID (**admin**) and Password (**admin**).

> ⓘ   The **admin** account has full authority to configure and operate the DVR system.

After login, the main GUI as following shown:

4. The hard disk must be formatted before user can use it with DVR unit. Following the below steps to format the hard disk.

> ℹ - Before formatting hard disk, please stop all operations on DVR system.
> - While formatting hard disk, the CPU usage will be near to 100% and might slow down the DVR system response.

    a.   Click **Setup** and enter the password

    b.   Click **System** → **Add**

    c.   Select the hard disk from device list, then click **Format** button to start formatting.

    d.   When formatting is done, click **OK**.

5. Setup the date and time in order to have correct recording time and date. Following the below steps to setup date and time:

    a.   Click **Setup** and enter the password

    b.   Click **System**

    c.   In **Time** section, click **Setting** button of **System Time**.

    d.   Select the year, moth and date, then, adjust the time.

    e.   Click **OK** to save the setting.

6. Connecting the camera.

    ■   **To connect analog camera:**

        a.   Plug the analog camera video cable into DVR unit.

        b.   Click **Setup** and enter the password.

        c.   Click **Camera**.

        d.   Select camera type as **Analog Camera**.

        e.   Then, mark **Enable** to enable the camera.

        f.   Give a name of camera and enter short description.

        g.   Adjust the bright, contrast, hue, and saturation of camera.

        h.   Finally, click **OK**.

    ■   **To connect IP camera:**

        a.   Click **Setup** and enter the password.

        b.   Click **Camera**.

        c.   Select the camera type as **IP Camera**.

        d.   And then, enable the camera

        e.   Click **Add IPCam** button.

        f.   Select using **Protocol** or **URL** to connect the IP camera. If user chooses the Protocol, please select **mode**, **video format**, **resolution**, and **channel** of IP camera. If user chooses the URL, please enter the complete URL address of IP camera.

        g.   Enter **ID** and **password** if IP camera's access authority is required.

        h.   Finally, click **OK**.

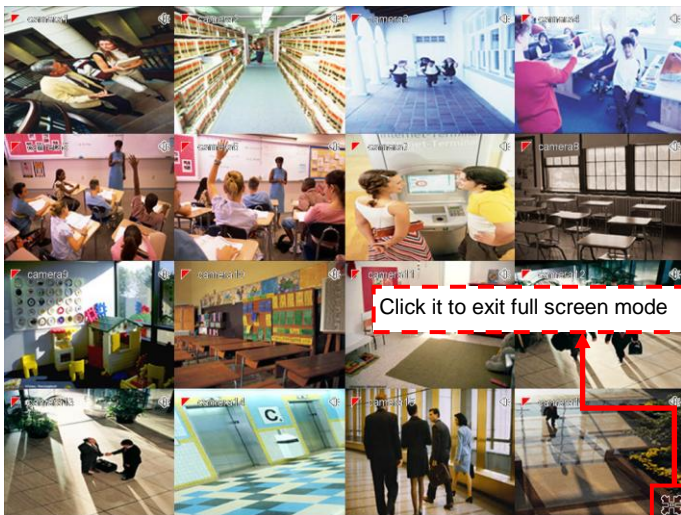> ℹ DVR unit doesn't supply the power to connected external device.

IV. Familiarizing the Buttons in Preview Mode

Name	Function
(1) Exit	**Reboot:** To restart the DVR system. It is required to enter the password **Power Off:** To shut down the DVR system. It is required to enter the password **Login:** Using different ID to login to DVR system. **Cancel:** To return to DVR application.
(2) Split Screen Mode	Select from 6 different split screen types to view all the camera, or one camera over the other or alongside on a single screen. It also allows you to switch and view different camera number.
(3) Record	Start/stop video recording.
(4) EMap	Display the map in each area, and the location of camera/ sensor/ relay and the warning.
(5) Network	Enable/disable remote system access. This feature allows you to access DVR server from a remote location via internet connection.
(6) Setup	Configure the system settings.
(7) PTZ	Access PTZ control panel.
(8) Preview	Switch to Preview mode. This allows you to view live camera display.
(9) Playback	Switch to Playback mode. This allows you to view the recorded video file.
(10) Status bar	Display the current date, time, hard disk free space, and system temperature.
(11) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.

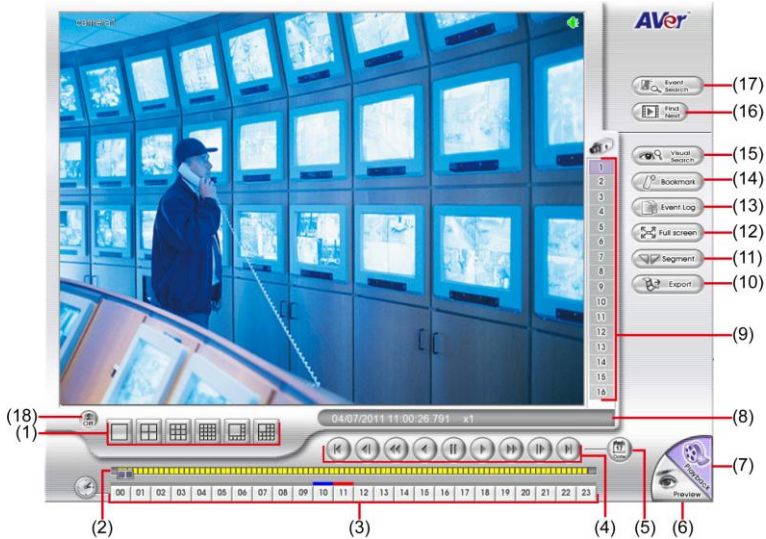| Name	Function
(12) Snapshot	Capture and save the screen shot in *.jpg format.
(13) Event log	Show the record of activities that take place in the system.
(14) AutoScan	Start/Stop video screen cycle switch.
(15) Full screen	View in full screen. To return, press the right button of the mouse or **ESC** on the keyboard or click the arrow icon. When you switch to full screen in multiple-screen mode, **Left** click to toggle to only display one of the video in the multiple-screen mode or all.
(16) Alarm	Alert and display warning info. Administrator and user level both can reset alarm status.
(17) Virtual Keyboard	Click to enable virtual keyboard.

V. Familiarizing the Buttons in Playback Mode

Click **Playback** button at the lower right corner of Preview UI to switch to Playback mode.

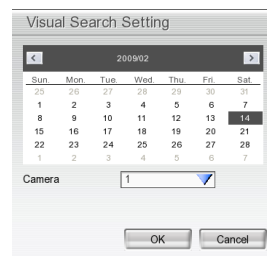| Name	Function
(1) Split Screen Mode	Select from 6 different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen.
(2) Progress bar	Show the progress of the file being played. You may move the bar to seek at any location of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time frame.

> ℹ The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.

(4) Playback Control Buttons	**Begin:** Move at the beginning of the recorded video file.
	Previous: Go back to the previous frame.
	Slower: Play the recorded video file at the reduce speed from 64x, 32x, 16x, 8x, 4x, 2x, 1x, 1/2x, 1/4x.
	Rewind: Wind back the recorded video file.
	Pause: Briefly stop playing the recorded video file.
	Play: Play the recorded video file.
	Faster: Play the recorded video file at the speed of 2X, 4X, 8X, 16X, 32X, or 64X.

Name	Function
(4) Playback Control Buttons	**Next:** Go to the next frame. **End:** Go to the end of the recorded video file.
(5) Date	Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file.

> The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera ID. The blue colored column indicates that there is a recorded video file on that period of time. While the red colored column indicates on where to start playing the recorded video file.

Name	Function
(6) Preview	Switch to Preview mode.
(7) Playback	Switch to Playback mode to view the recorded video file.
(8) Status bar	Display the recorded date, time and play speed.
(9) Camera ID	Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera.
(10) Export	Export includes Snapshot, Output Video Clip, and Backup function. ■ **Snapshot:** Capture and save the screen shot in *.jpg format. ■ **Output Video Clip:** Save the segmented file in *.dvr format to external USB storage device. ■ **Backup:** Save the playback file to USB device or DVD disk
(11) Segment	Keep a portion of the recorded video. 1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark. 2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation or set the segment marks from the start, click **Segment** button again. 3. Click **Export** button → **Output Video Clip** to save the video segment to the USB storage device.
(12) Full screen	View in full screen. To return, press the right button of the mouse or **ESC** on the keyboard or click the arrow icon on screen. When you switch to full screen in multiple-screen mode, **Left** click to toggle to only display one of the video in the multiple-screen mode or all.
(13) Event log	Show the record of activities that take place in the system. To filter the records, select and click the option button to only display Event, System, Operation, Network or All.

Name	Function
(14) Bookmark	Mark a reference point when reviewing the recorded video file to which you may return for later reference. 1. Click **Bookmark** button 2. In the Bookmark dialog box, you may do the following: - **Add** to create the new reference mark in the bookmark list. - **Edit** to change the mark description. - **Delete** to remove the selected reference mark in the list. - **Delete All** to remove all the reference marks in the list. - **Exit** to close Bookmark dialog box. 3. Select and click one in the bookmark list to review the file.
(15) Visual Search	Search from a specific camera by Date, Hour, Minute, 10 Seconds and Second. 1. Click **Visual Search**. 2. In the Visual Search Setting dialog box, select the Camera number and the date. Then click **OK**. 3. When a series of frames appear by date, click on the frame to display another series of frames and search by every Hour of that date, every Minutes of that hour, and every Seconds of that minute. Using ◄ and ► to go previous and next page of screen page. To go back previous time section (hour, minute, or second), click ←. To close event search, click ☒. Click 🗓 to select different date of video for visual search. 4. On the time second screen, click the channel and playback button will appear. Click playback button to playback the selected channel video frame.

Name	Function
(16) Find Next	Search for the next event or changes in the motion detector frame. You can use this when you are using Event Search function.
(17) Event Search	Search from the recorded activities that were recorded in event log (i.e., Sensor, Motion, Video Loss).
(18) De-interlace	To enhance the video quality. Set the de-interlace mode to #1, if you are capturing motionless picture and #2, if it captures lots of movement.